PATENT COOPERATION TREATY

Translation

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P3S2004112	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No.	International filing date (day/moni	h/year) Priority date (day/month/year)					
PCT/JP2004/009015	25.06.2004	26.08.2003					
International Patent Classification (IPC) or national							
F16G5/16							
Applicant FUKUJU KOGYO KABUSHII	KI KAISHA						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of	5 sh	eets, including this cover sheet.					
3. This report is also accompanied by A	- I A A A A A A A A A A A A A A A A A A						
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:							
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
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, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
Box No. I Basis of the	e report						
Box No. II Priority							
Box No. III Non-establ	novelty, inventive step and industrial applicability						
Box No. IV Lack of un							
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
Box No. VI Certain documents cited							
Box No. VII Certain defects in the international application							
Box No. VIII Certain ob							
Date of submission of the demand		empletion of this report					
Name and mailing address of the IPEA/JP		Authorized officer					
Facsimile No.		Telephone No.					

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International application No.
PCT/JP2004/009015

Box	x No. I Basis of the report		
1.	With regard to the language, this report is based on the indicated under this item.	ne international application in the language in	which it was filed, unless otherwise
	This report is based on translations from the ori which is the language of a translation furnished		,
	international search (Rule 12.3 and 23.1(b	• •	
	publication of the international applicatio		
	international preliminary examination (Ru	ule 55.2 and/or 55.3)	
2.	With regard to the elements of the international appl receiving Office in response to an invitation under this report):	lication, this report is based on (replacement s Article 14 are referred to in this report as "o	sheets which have been furnished to the riginally filed" and are not annexed to
	the international application as originally filed/	furnished	
	the description:		
	pages 1, 3, 8-13, 16		as originally filed/furnished
	pages* 2,4-7,14,15,17-19	received by this Authority on	28.01.2005
	pages*	received by this Authority on	
	the claims:		
	nos. 2,3,6,7,10,16,17,23,24,26		as originally filed/furnished
	nos.*	as amended (togethe	er with any statement) under Article 19
	nos.* 1,8,18,20	received by this Authority on	28.01.2005
	nos.* 4,5,9,13-15,19	received by this Authority on	17.11.2005
	the drawings:		
	sheets fig. 1-24, 26-32		as originally filed/furnished
	sheets* fig. 25	received by this Authority on	28.01.2005
	sheets*	received by this Authority on	
	a sequence listing and/or any related table(s) -	see Supplemental Box Relating to Sequence L	isting.
3.	The amendments have resulted in the cancellat	ion of:	
	the description, pages		
	the claims, nos11,12,21,22,25		
	the drawings, sheets/figs		
	the sequence listing (specify):		
	any table(s) related to sequence listing (s	pecify):	
4.	This report has been established as if (some of they have been considered to go beyond the di		
	the description, pages		
	the claims, nos.		
	the drawings, sheets/figs		
	the sequence listing (specify):		
	any table(s) related to sequence listing (s	specify):	
	If item 4 applies, some or all of those sheets may be	marked "superseded."	

International application No. PCT/JP2004/009015

Statement			
Novelty (N)	Claims	1-10, 13-20, 23, 24, 26	YE
	Claims		_ NO
Inventive step (IS)			_ YE
	Claims	9, 10, 13, 15-19	_ NO
Industrial applicability (IA)	Claims	1-10, 13-20, 23, 24, 26	_ YE
	Claims		_ NO
	Citations and explain Statement Novelty (N) Inventive step (IS)	Statement Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims Claims	Statement Statement Statement Statement Statement

- - Document 1: JP 61-26662 Y2 (Toyota Motor Corp.), 09 August 1986, page 3, left column, line 40 to right column, line 1 (Family: none)
 - Document 2: JP 2001-193796 A (Fukuju Kogyo Kabushiki Kaisha), 17 July 2001, paragraph [0009] and fig. 4 & US 6679798 B & EP 1132649 A1 & WO 00/28237 A1
 - Document 3: JP 3-125053 A (Toyota Motor Corp.), 28 May 1991, page 3, lower right column, line 14 to page 4, upper left column, line 8 and fig. 6 to 8 (Family: none)
 - Document 4: JP 10-213185 A (Nissan Motor Co., Ltd.), 11 August 1998, entire text, all drawings (Family: none)

The invention set forth in claims 9 and 10 does not involve an inventive step in the light of newly cited document 1 and document 2 cited in the international search report. Document 1 indicates that if the angle formed by the side surface (14a) and the front surface (14b) of the main body is an obtuse angle and the front surface of the side surface (14a) is an inclined surface, then it becomes impossible to maintain an oil film upon

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

the side surface (14a) and the driven surfaces of both pulleys. Meanwhile, document 2 discloses a feature wherein the metal wire material is bent into the shape of an element and then pressed in order to form the element. Therein, document 1 and document 2 both pertain to push blocks, and thus it would have been easy for a person skilled in the art to conceive of combining the inventions that are disclosed in documents 1 and 2.

The invention set forth in claim 13 does not involve an inventive step in the light of document 2 and document 3 cited in the international search report.

Document 3 discloses a feature wherein the contact surface (50a), which is located at the center in the widthwise direction, decreases the thickness of the oil film and thereby increases the coefficient of friction.

Therein, documents 2 and 3 both pertain to push blocks, and thus it would have been easy for a person skilled in the art to conceive of combining the inventions that are disclosed in documents 2 and 3.

The invention set forth in claims 15 to 17 does not involve an inventive step in the light of document 2 and newly cited document 4. Document 4 discloses a feature wherein a groove part (2e) is provided in the contact surface. Therein, documents 2 and 4 both pertain to push blocks, and thus it would have been easy for a person skilled in the art to conceive of combining the inventions that are disclosed in documents 2 and 4. In addition, a person skilled in the art could select or change the shape of the groove part (2e), as appropriate.

The invention set forth in claims 18 and 19 does not involve an inventive step in the light of documents 1 to 4. Document 4 discloses a feature wherein the width of

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Box No. V

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the protruding part (2d) decreases towards the front end side and increases towards the back end side.

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;

The inventions set forth in claims 1 to 8, 14, 20, 23, 24 and 26 are not disclosed in any of the documents that are cited in the international search report, and would not have been obvious to a person skilled in the art.